SMD GEARBOX

SMD

BRILLIANTLY AGILE!

HIGH PRECISION SERVO GEARBOX

SMD Gearbox

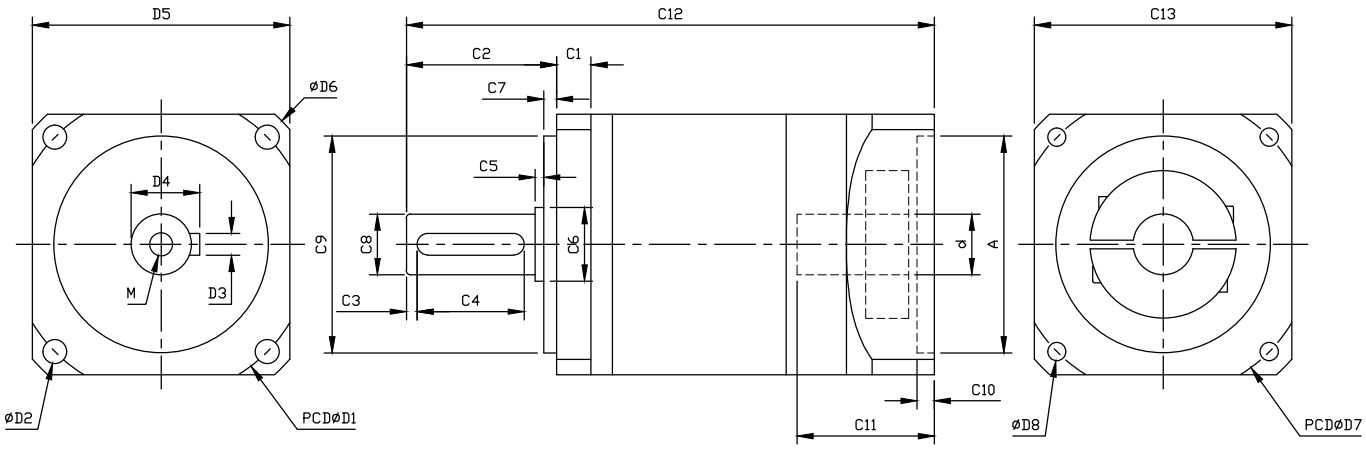
SPE-S Series

Planetary Gearbox with Shaft Output
Square Frame
Spur Gears

Information	Stage	Ratio	SPE60-S	SPE080-S	SPE090-S	SPE115-S	SPE142-S
Defined Output Torque (Nm)	1	3	18	40	50	125	290
		4	36	90	110	230	460
		5	40	110	125	260	550
		6	20	40	50	90	340
		7	20	40	50	90	340
		8	12	22	32	70	210
		10	12	22	32	70	210
	2	12	36	90	110	230	460
		15	40	110	125	260	550
		16	36	90	110	230	460
		20	40	110	125	260	550
		25	40	110	125	260	550
		28	36	90	110	230	460
		30	18	40	50	125	290
		35	40	110	125	260	550
		40	36	90	110	230	460
		50	40	110	125	260	550
		60	20	40	50	90	340
		70	20	40	50	90	340
		80	12	22	32	70	210
		100	12	22	32	70	210
Motor Shaft Size	1, 2	3-100	6—14	14—19	14—19	16—24	19-35
Peak Output Torque (Nm)	1, 2	3-100	2 times of Defined Output Torque				
Backlash (arc min)	1	3-10	≤10	≤10	≤10	≤10	≤10
Backlash (arc min)	2	12-100	≤12	≤12	≤12	≤12	≤12
Defined Input Speed (RPM)	1, 2	3-100	4000	3500	3500	3500	2500
Torsional rigidity Nm/arcmin	1, 2	3-100	1.8	4.7	4.85	11	55
Allowable Radial Force (N)	1,2	3-100	220	400	430	1000	4500
Allowable Axial Force (N)	1,2	3-100	240	420	450	1240	4800
Life Time (hrs)	1,2	3-100	10000				
Efficiency (%)	1	3-10	≥96				
Efficiency (%)	2	12-100	≥93				
Weight (kg)	1	3-10	1.1	2.1	4.4	6.6	26.5
	2	12-100	1.4	3	5	8.2	29.6
Temperature (℃)	1, 2	3-100	-10°C~+80°C				
Protection Rank			IP54				
Lubricant			Synthetic Lubricant				
Noise (dB)	1,2	3-100	61	63	63	68	75

Dimension Sheet

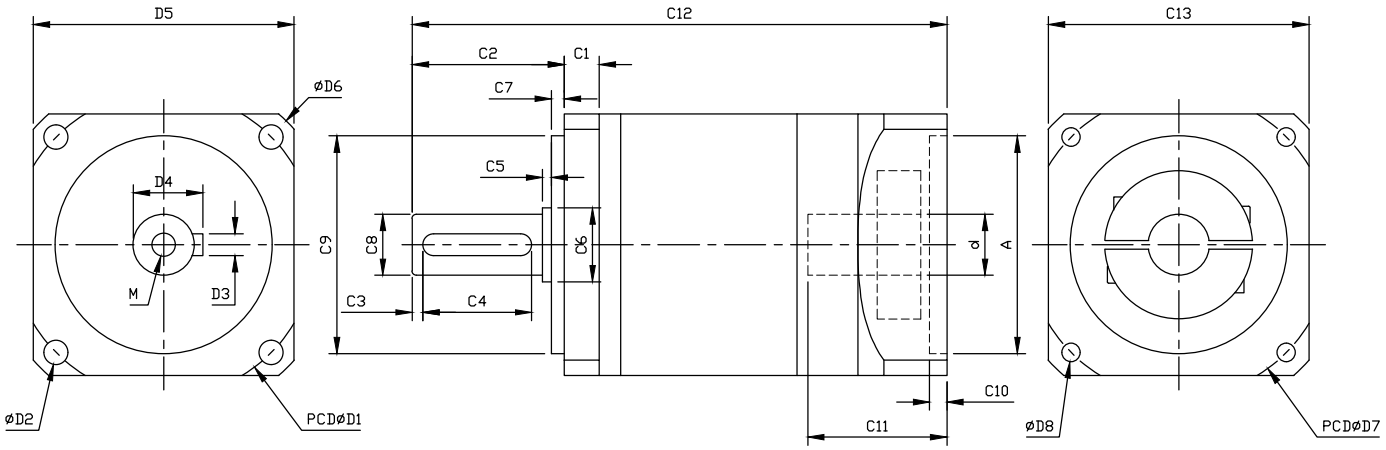
Dimension(single stage,Ratio i=3 to 10)



Dimension	SPE042S	SPE060S	SPE080S	SPE090S	SPE115S	SPE142S
D1	50	70	100	110	130	185
D2	4.5	5.5	6.5	6.5	8.5	11
D3	3	5	6	6	8	12
D4	11.2	16	22.5	24.5	28	43
D5	42	60	90	92	120	176
D6	58	80	120	125	160	230
D7	46	70	90	90	145	200
D8	M4	M4	M5	M5	M8	M12
C1	5	8	10	10	14	15
C2	26	35	40	46	55	87
C3	2.5	2.5	5	2	5	5
C4	16	25	25	32	40	70
C5	2.5	2	2	5	2	2
C6	12	17	25	30	35	55
C7	2	3	3	5	4	5
C8	10	14	20	22	25	40
C9	26	50	80	85	110	130
C10	5	5	6	5	14	10
C11	26	31.5	41	41	60	83
C12	104	137.5	177.4	183.4	237	313.5
C13	42	60	80	80	130	180
M	M4	M5	M6	M6	M10	M12
A	30	50	70	70	110	114.3
d	5-8	6-14	14-19	14-19	19-24	24-35

Dimension Sheet

Dimension(Double stage,Ratio i=15 to 100)



Dimension	SPE042S	SPE060S	SPE080S	SPE090S	SPE115S	SPE142S
D1	50	70	100	110	130	185
D2	4.5	5.5	6.5	6.5	8.5	11
D3	3	5	6	6	8	12
D4	11.2	16	22.5	24.5	28	43
D5	42	60	90	92	120	176
D6	58	80	120	125	160	230
D7	46	70	90	90	145	200
D8	M4	M4	M5	M5	M8	M12
C1	5	8	10	10	14	15
C2	26	35	40	46	55	87
C3	2.5	2.5	5	2	5	5
C4	16	25	25	32	40	70
C5	2.5	2	2	5	2	2
C6	12	17	25	30	35	55
C7	2	3	3	5	4	5
C8	10	14	20	22	25	40
C9	26	50	80	85	110	130
C10	5	5	6	5	14	10
C11	26	31.5	41	41	60	83
C12	86	118.5	152.9	158.9	204.5	268.5
C13	42	60	80	80	130	180
M	M4	M5	M6	M6	M10	M12
A	30	50	70	70	110	114.3
d	5-8	6-14	14-19	14-19	19-24	24-35

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GET IN TOUCH

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